

WEST

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TITLE: Jet nozzle of atomiser - contains core from pipe and axially movable shaft whose tip forms annular slot with outlet edge of pipe in supersonic part of laval nozzle

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PATENT-ASSIGNEE:

ASSIGNEE	CODE
VASILEV V A	VASII

PRIORITY-DATA: 1988SU-4359328 (January 11, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1514417 A	October 15, 1989		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
SU 1514417A	January 11, 1988	1988SU-4359328	

INT-CL (IPC): B05B 7/00

ABSTRACTED-PUB-NO: SU 1514417A

BASIC-ABSTRACT:

For better efficiency the design includes casing (1) with inlet nozzles (2,3) for the liquid and compressed gas resp., and chamber (4) changing into Laval nozzle (5). The central core of the jet consists of pipe (6) and shaft (7) axially movable by nut (10) and having tip (8) which forms an annular slot (9) with the outlet edge of pipe (6) placed in supersonic part of Laval nozzle (5).

In operation, compressed air fed into chamber (4) passes in a stream accelerated in Laval nozzle (5), where the film of liquid passing from slot (9) flows into the supersonic stream of gas. The amount of liquid atomised by the stream of gas can be regulated by changing the size of slot (9) by axial movement of shaft (7) with tip (8), using nut (10).

USE/ADVANTAGE - The jet nozzle of atomizer can be used in chemical, metallurgical, medical industries as well as in power engineering for spraying of liquids and other flowing substances. Increased degree of dispersivity of atomized material in a wide range of amounts of sprayed liquid, due to adjustable thickness of the film of liquid. Bul. 38/15.10.89

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: JET NOZZLE ATOMISE CONTAIN CORE PIPE AXIS MOVE SHAFT TIP FORM ANNULAR SLOT OUTLET EDGE PIPE SUPERSONIC PART LAVA NOZZLE